

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 145 714 A1

(12)

EUROPEAN PATENT APPLICATION
published in accordance with Art. 158(3) EPC

(43) Date of publication:
17.10.2001 Bulletin 2001/42

(51) Int Cl.⁷: **A61K 31/4375**, A61K 31/4985,
A61K 45/00, A61P 1/08

(21) Application number: **99972920.5**

(86) International application number:
PCT/JP99/06569

(22) Date of filing: **25.11.1999**

(87) International publication number:
WO 00/32192 (08.06.2000 Gazette 2000/23)

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

• **YAMAMOTO, Masaki**
Nishinomiya-shi, Hyogo 662-0811 (JP)
• **FUKUI, Hideo**
Fort Lee, NJ 07024 (US)

(30) Priority: **27.11.1998 JP 33743898**
19.01.1999 JP 1090799

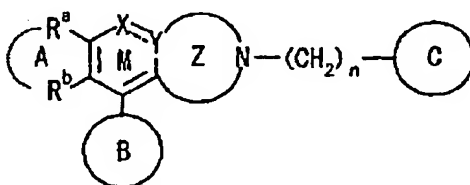
(74) Representative:
von Kreisler, Alek, Dipl.-Chem. et al
Patentanwälte
von Kreisler-Setling-Werner
Postfach 10 22 41
50462 Köln (DE)

(71) Applicant: **Takeda Chemical Industries, Ltd.**
Osaka-shi, Osaka 541-0045 (JP)

(72) Inventors:
• **DOI, Takayuki**
Izumi-shi, Osaka 594-0013 (JP)

(54) **DRUGS**

(57) The present invention relates to a medicine which comprises a compound (I) of the formula:



[wherein the ring M is a heterocyclic ring having -N=C<, -CO-N< or -CS-N< as a partial structure —X=Y<, R^a and R^b are bound to each other to form the ring A, or they are the same or different each representing a hydrogen atom or a substituent on the ring M; the rings A and B each is an optionally substituted homocycle or heterocycle, and at least one of them is an optionally substituted heterocycle; the ring C is an optionally substituted homocycle or heterocycle; the ring Z is an optionally substituted nitrogen-containing heterocycle; and n is an integer of 1 to 6]

or a salt thereof in combination with a drug having an emetic action.

The compounds (I) or their salts are useful as anti-emetic drugs. Particularly, vomiting caused by drugs having an emetic action can be inhibited by these compounds rapidly and safely at a low dose.

EP 1 145 714 A1